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CENTRAL INTELLIGENCE AGENCY

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## INFORMATION REPORT

COUNTRY: USSR AND ORBIT

SUBJECT: Analysis of Grain Samples

PLACE ACQUIRED (BY SOURCE) Unknown

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SUPP. TO  
REPORT NO.

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THIS IS UNEVALUATED INFORMATION

| Sample No. | Origin         | Crop And Market Type | Weight per Bushel (Lbs.) | Protein Content | Remarks  |
|------------|----------------|----------------------|--------------------------|-----------------|--|
| 34         | Hungary        | rye                  | 59                       |                 | Good bright color, trace of wheat and barley, no weed seeds. Grown under favorable conditions.   |
| 35         | U.S.S.R.       | rye                  | 56                       |                 | 10% badly shrivelled rye, 1-2% barley, 1-2% oats, trace wheat, trace vetch.  |
| 36         | Bulgaria       | rye                  | 59                       |                 | 15% badly shrivelled rye, 3% wheat and barley, 2% vetch & peas. Sample probably of mixed origin, partly grown under less favorable conditions. |
| 37         | Czechoslovakia | wheat                | 60                       | 10.6            | Hard red wheat grown under favorable conditions. Uniform and free of mixtures of other classes of wheat or other grains and weed seed.         |
| 38         | Soviet         | oats                 | 43                       |                 | Plump yellow oats, 1.5% of weed seed including vetch, buckwheat & miscellaneous weeds.   |
| 39         | "              | corn                 | 58                       |                 | Mixed yellow & white probably of Minnesota maturity range. Sample contains approximately 10% cracked corn, 5% wheat, & 2% oats.                |

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| Sample No. | Origin | Crop and Market Type | Weight per Bushel (Lbs.) | Protein Content | Remarks   |
|------------|--------|----------------------|--------------------------|-----------------|---|
| 40         | Soviet | wheat                | 62                       | 13.0            | Hard red wheat, uniformly vitreous kernels with only trace of soft yellowberry kernels. Looks like excellent quality.                         |
| 41         | Russia | wheat                | 61                       | 14.0            | Hard red wheat, vitreous kernels & only trace of oats & barley. Looks like excellent quality.   |
| 43         | "      | "                    | 60                       | 14.1            | Hard red wheat, about 75% vitreous kernels & 25% somewhat weathered yellowberry. Trace of amber durum & barley.                               |
| 44         | "      | "                    | 60                       | 13.4            | Hard red wheat, 95% vitreous, 5% weathered & yellowberry. Trace of rye & barley.  |
| 46         | Russia | wheat                | 61                       | 13.6            | Similar to sample 44.   |
| 47         | "      | "                    | 61                       | 14.0            | Similar to sample 44.   |
| 48         | "      | "                    | 60                       | 13.1            | Hard red wheat, 80% vitreous, 20% yellowberry. Trace of rye, barley, oats, & shrivelled bleached wheat.                                       |
| 49         | "      | "                    | 61                       | 13.9            | Hard red wheat, kernels look slightly weathered and of slightly softer texture than most samples. Trace of barley & oats.                     |
| 50         | "      | "                    | 61                       | 13.6            | Similar to sample 49.   |
| 51         | "      | "                    | 61                       | 13.6            | Amber durum, vitreous kernels with only trace of yellowberry. Trace of blackpoint discoloration of germ. Trace of oats, barley, & weed seeds. |
| 52         | "      | "                    | 61.5                     | 13.8            | Similar to sample 51.   |
| 53         | "      | "                    | 61                       | 14.2            | Similar to sample 51.   |
| 54         | "      | "                    | 61                       | 14.3            | Hard red wheat, 95% vitreous kernels, 5% somewhat weathered & yellowberry. Trace rye, barley & wild oats.                                     |
| 55         | "      | "                    | 61                       | 13.5            | Similar to sample 54 except no wild oats.   |
| 56         | "      | "                    | 61                       | 13.9            | Amber durum with trace of blackpoint discoloration of germ end. Trace of barley & weed seed.  |
| 57         | "      | "                    | 61                       | 11.3            | Hard red wheat slightly weathered & dull. Trace of rye & barley.  |

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| Sample No. | Origin | Crop and Market Type | Weight per Bushel (lbs.) | Protein Content | Remarks   |
|------------|--------|----------------------|--------------------------|-----------------|---|
| 58         | Russia | wheat                | 60.5                     | 13.7            | Amber durum, vitreous kernels with only trace of yellowberry. Trace of barley, wild oats, & weed seed.                                    |
| 59         | "      | "                    | 61                       | 13.5            | Similar to sample 58 except it contains 2% yellowberry kernels & 2% hard red wheat. Trace of rye.   |
| 60         | Russia | "                    | 59                       | 14.1            | Hard red wheat, somewhat dull and weathered and trace of shrivelled kernels. Trace of barley, wild oats & weed seed, including sunflower. |
| 61         | "      | "                    | 60                       | 13.5            | Hard red wheat, 95% vitreous & 5% yellowberry kernels. Trace rye & barley.  |
| 62         | "      | "                    | 61                       | 14.1            | Amber durum, vitreous with only trace of yellowberry. Trace of hard red wheat. Trace of barley, wild oats, & weed seeds.                  |
| 63         | "      | "                    | 61                       | 14.7            | Hard red wheat, slightly weathered & with trace of shrivelled kernels. Trace of rye.  |
| 64         | "      | "                    | 60                       | 14.0            | Hard red wheat, bright & plump but weevily at time examined.  |
| 65         | "      | "                    | 61                       | 14.2            | Hard red wheat, vitreous with only trace of yellowberry. Trace of rye, barley, & oats.  |
| 66         | "      | "                    | 61                       | 13.9            | Amber durum wheat, vitreous with 1% yellowberry. Trace of hard red wheat & red durum. Trace wild oats & weed seed. Trace smut balls.      |

## 2. Conclusions:

The samples of wheat are remarkably pure as to class and type which would indicate that they may have been from the better producing areas of the country and handled without a great deal of mixing of shipments from various sections while in the terminal elevators. The test weights are good for all of the grains. The protein content of most of the samples of wheat were very good indicating that these samples should have excellent quality for blending with low protein soft wheat grain in Western Europe and used for bread-making purposes. The protein content of the durum samples is also in a range that should make good macaroni products. The high test weight of all samples would indicate that they were grown under relatively favorable conditions and it is somewhat unusual to have so many high test weight samples of wheat with a protein content of 13 to 15%.

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